

20080728.ba v04_n193.bam.20080728

>From ???@??? Mon Jul 28 21:13:44 2008 -0500
Date: Mon, 28 Jul 2008 21:12:13 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4193
Message-Id: <20080729030747.BB11610B17D@srvr1.theporch.com>

BOATANCHORS Digest 4193

Topics covered in this issue include:

- 1) Re: Suggestions for best CW rig?
by "K0AL" <k0al@mchsi.com>
- 2) Re: 5U4's
by Steve Berg <wa9jml@tbc.net>
- 3) Re: 5U4's
by WA5CAB@cs.com
- 4) Re: 5U4's
by "Arden Allen" <gumbear@pacbell.net>
- 5) RE: 5U4's
by "Dr. James C. Garland" <4cx250b@muohio.edu>
- 6) Re: 5U4's
by Scott Robinson <spr@earthlink.net>
- 7) RE: 5U4's
by "Bill Hawkins" <bill@iaxs.net>
- 8) Re: Suggestions for best CW rig?
by beckrep@citlink.net
- 9) RE: 5U4's
by Scott Robinson <spr@earthlink.net>
- 10) Re: 5U4's
by "Arden Allen" <gumbear@pacbell.net>
- 11) Re: 5U4's
by "J.D. Mac Aulay, WQ8U" <jmac6235@yahoo.com>
- 12) Re: 5U4's
by Al Klase <al@ar88.net>
- 13) Naval Radio Station HAIKU, Hawaii
by Jerry Proc <jerry7proc@yahoo.com>
- 14) Re: Suggestions for best CW rig?
by "JAMES HANLON" <knjhanlon@msn.com>
- 15) Re: Suggestions for best CW rig?
by "Art Lebermann" <artleb@earthlink.net>
- 16) Hallicrafters SX-62 Slipping Dial
by David Hollander <n7rk@cox.net>
- 17) Re: Naval Radio Station HAIKU, Hawaii
by Robert Nickels <w9ran@oneradio.net>
- 18) Re: Naval Radio Station HAIKU, Hawaii

by Jerry Proc <jerry7proc@yahoo.com>

Message-ID: <014101c8f035\$91267a10\$2112ce0c@AL>

From: "K0AL" <k0al@mchsi.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Suggestions for best CW rig?

Date: Sun, 27 Jul 2008 17:10:22 -0500

MIME-Version: 1.0

Content-Type: text/plain;

format=flowed;

charset="iso-8859-1";

reply-type=original

Content-Transfer-Encoding: 7bit

Hands down - The Johnson Navigator.

Sure, they may be over priced for what it offers, but it offers the best in a "CW Only rig".

73

Al, K0AL

----- Original Message -----

From: "Art Lebermann" <artleb@earthlink.net>

To: "Old Tube Radios" <boatanchors@theporch.com>

Sent: Thursday, July 24, 2008 1:33 AM

Subject: Suggestions for best CW rig?

>

> I'm interested in suggestions for the best medium to low power "CW only"
> transmitter. I'm sure that there will be many opinions, but your comments
> will be very much appreciated.

>

> 73,

> Art Lebermann

> W6REQ

>

>

>

>

Message-ID: <488CFD56.3050205@tbc.net>

Date: Sun, 27 Jul 2008 17:57:26 -0500

From: Steve Berg <wa9jml@tbc.net>

MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 5U4's
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

What I want to know is which brands of 5Y3's and 5R4GB's will give the best audio fidelity in my P&H 6 meter transverter?

73,

Steve WA9JML

From: WA5CAB@cs.com
Message-ID: <c88.30fa3c82.35be585c@cs.com>
Date: Sun, 27 Jul 2008 19:01:48 EDT
Subject: Re: 5U4's
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_c88.30fa3c82.35be585c_boundary"

--part1_c88.30fa3c82.35be585c_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Why, Silvertone, of course.

In a message dated 7/27/2008 5:58:51 PM Central Daylight Time, wa9jml@tbc.net writes:

> What I want to know is which brands of 5Y3's and 5R4GB's will give the
> best audio fidelity in my P&H 6 meter transverter?
>

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

--part1_c88.30fa3c82.35be585c_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *

* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

--part1_c88.30fa3c82.35be585c_boundary--

Message-ID: <004f01c8f03d\$722d6cb0\$5a9e480c@KB6NAX>

From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: 5U4's

Date: Sun, 27 Jul 2008 16:06:26 -0700

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

>The input caps don't filter so much
> as they hold up the DC while the rectifier is not conducting. A choke
> input also holds the DC up by increasing the time the rectifier
> conducts.

The input filters do the most filtering. The definition of capacitance is resisting change in voltage. Choke input filters are kind to rectifiers but have little to offer in a power supply that has to supply widely varying currents such as in an audio amplifier that is running a virtual class B. Swinging chokes help to solve that problem. Chokes became passe because of their bulk and the availability of higher current capability rectifiers and economical large value electrolytic capacitors.

Arden Allen
KB6NAX

From: "Dr. James C. Garland" <4cx250b@muohio.edu>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: 5U4's

Date: Sun, 27 Jul 2008 17:20:15 -0600

Message-ID: <026a01c8f03f\$55066ef0\$bd00a8c0@Garland>

MIME-Version: 1.0

Content-Type: text/plain;
charset="us-ascii"

Content-Transfer-Encoding: 7bit

> Jim probably regrets saying, "At RF frequencies, such considerations are

> completely irrelevant, since the
> RF current path in an RF amplilfier doesn't go through the power supply."
> Sorry Jim, it doesn't matter how the power gets to the load, it still has
> to
> come from a power supply of some finite impedance. You can easily see the
> envelope distortion CW transmitters suffer from due to power supply
> impedance.
>
> Arden Allen
> KB6NAX

Arden you're right of course that a power supply with poor regulation will distort a CW signal, but that's the envelope of the RF waveform. For an RF amplifier, one needs a power supply with low output Z at DC up to a low audio frequency. As I noted, the RF current doesn't flow through the power supply.

73,

Jim W8ZR

Mime-Version: 1.0
Message-Id: <p06240803c4b2d36b2920@[192.168.1.2]>
Date: Sun, 27 Jul 2008 18:41:21 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Re: 5U4's
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi John,

In a modern amplifier design, this problem is made less important by using very large filter capacitors at the feed point to the output stage plates. Multiples of 100 uF are easy to do now.

Also, for a class A push-pull final stage, if everything were perfect the power supply impedance is irrelevant, since the B+ is only DC. Of course, things aren't that balanced in practice, but I would expect balance to be adjusted within 10%, and if you don't have AC and DC balance controls, you aren't building a very good power amp.

Regards,

Scott

At 9:13 AM -0700 7/27/08, John Sehring wrote:

>All the yucking about "quad 5U4's" audiotomphoolery reminds me that

>there are some important & real considerations about power supplies.
>Namely, that the power supply for a particular amplifier stage (tube
>and ss) is effectively in *series* with the signal!

>

>This was brought home to me forcefully many years ago when I was
>working with computer software simulations of electronic circuits.
>The power supply needs to be placed in series with the output plate (or
>collector or wherever); hence the signal sees ("reflects") the
>output impedance ("signal" of the PS, if you will) of the power
>supply as well as that of the amplifier stage.

>

>For example, visualize a tube driving an output transformer; the
>signal flow could be viewed as coming up from ground to the tube's
>cathode, thru the tube, up to the plate, down the transformer
>primary winding, thru the power supply, to ground again (or you
>could reverse this flow in your mind). The output signal's in that
>loop, which includes the PS.

>

>Yes, the PS Z can be measured. Ideally, a PS would show zero
>internal Z from DC to beyond the upper freq. limit of the amp. This
>would of course be a perfect voltage source, displaying no variation
>of its output voltage up to the peak current requirement of the
>amplifier it was supplying.

>

>A carefully designed 3-terminal ss voltage regulator (e.g. LM317)
>can have as little as about $10E-3$ ohms Z up to around 8 kHz and
> $10E-1$ ohms to 100 kHz. By contrast, a Zener used as a regulator
>could have around 25 ohms at audio frequencies. Offhand, I have no Z
>numbers in my head for a traditional boatanchor B+ supply.

>

>So, however much we chuckle over the "sound" of 5U4's, it is there;
>it's more than residual AC hum; it may or may not be audible to good
>ears, or to measurements.

>

>--John WB0EQ

>

>

>

>

>

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: 5U4's
Date: Sun, 27 Jul 2008 21:51:21 -0500
Message-ID: <000301c8f05c\$d16ba790\$021ba8c0@cyrus>
MIME-Version: 1.0
Content-Type: text/plain;

charset="us-ascii"
Content-Transfer-Encoding: 7bit

Scott,

I understand differential balance, as in hum balance, and as in phase inverter balance. How do I do DC balance, unless you are talking about cathode bias balance, which is not a property of the power supply?

Bill Hawkins

-----Original Message-----

From: owner-boatanchors@theporch.com
[mailto:owner-boatanchors@theporch.com] On Behalf Of Scott Robinson
Sent: Sunday, July 27, 2008 8:41 PM
To: Old Tube Radios
Subject: Re: 5U4's

Hi John,

In a modern amplifier design, this problem is made less important by using very large filter capacitors at the feed point to the output stage plates. Multiples of 100 uF are easy to do now.

Also, for a class A push-pull final stage, if everything were perfect the power supply impedance is irrelevant, since the B+ is only DC. Of course, things aren't that balanced in practice, but I would expect balance to be adjusted within 10%, and if you don't have AC and DC balance controls, you aren't building a very good power amp.

Regards,

Scott

Message-Id: <6.0.3.0.2.20080727210410.025e1d20@pop3.citlink.net>
Date: Sun, 27 Jul 2008 21:11:16 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: beckrep@citlink.net
Subject: Re: Suggestions for best CW rig?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Some years back, I modified the Viking VFO to Run the Viking II CDC on 30m. Worked fine. The article on the conversion came out of one of the Hints and Kinks books from the 50's. Don't remember the exact details.

73's de Paul K2LMQ Kingman, AZ.

At 12:15 PM 7/27/2008, ChasW3KC wrote:

>>But there is something that I long for, and that is the WARC bands!

>

>The venerable Viking II will cover 'em (with suitable vfo or xtal's).

>

>73 Chas W3KC

>

Mime-Version: 1.0

Message-Id: <p06240809c4b3015cedc8@[192.168.1.2]>

Date: Sun, 27 Jul 2008 21:57:56 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: Scott Robinson <spr@earthlink.net>

Subject: RE: 5U4's

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

hi Bill,

DC balance is done by turning the grid bias of one tube up and the other down. This can be done in a cathode bias system, or in a fixed bias system.

AC balance is usually done by varying the plate load of one side versus the other of a driver stage.

The way I adjust these is:

- 1) Set the DC balance about right by measuring plate or cathode currents;
- 2) adjust the AC balance for minimum distortion at 1 KHz;
- 3) Adjust the DC balance for minimum distortion at about 50 Hz. What you're doing is zeroing out the net DC flux in the output transformer so as to minimize saturation of the iron in the transformer at low frequencies.
- 4) Listen and enjoy.

/scott

At 9:51 PM -0500 7/27/08, Bill Hawkins wrote:

>Scott,
>
>I understand differential balance, as in hum balance, and as in
>phase inverter balance. How do I do DC balance, unless you are
>talking about cathode bias balance, which is not a property of
>the power supply?
>
>Bill Hawkins
>
>
>-----Original Message-----
>From: owner-boatanchors@theporch.com
>[mailto:owner-boatanchors@theporch.com] On Behalf Of Scott Robinson
>Sent: Sunday, July 27, 2008 8:41 PM
>To: Old Tube Radios
>Subject: Re: 5U4's
>
>Hi John,
>
>In a modern amplifier design, this problem is made less important by
>using very large filter capacitors at the feed point to the output stage
>plates. Multiples of 100 uF are easy to do now.
>
>Also, for a class A push-pull final stage, if everything were perfect
>the power supply impedance is irrelevant, since the B+ is only DC. Of
>course, things aren't that balanced in practice, but I would expect
>balance to be adjusted within 10%, and if you don't have AC and DC
>balance controls, you aren't building a very good power amp.
>
>Regards,
>
>Scott

Message-ID: <001901c8f0bf\$d76cf140\$fd9e480c@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 5U4's
Date: Mon, 28 Jul 2008 07:40:05 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Arden you're right of course that a power supply with poor regulation will
> distort a CW signal, but that's the envelope of the RF waveform. For an
RF
> amplifier, one needs a power supply with low output Z at DC up to a low

> audio frequency. As I noted, the RF current doesn't flow through the power
> supply.
>
> 73,
>
> Jim W8ZR

No argument there. The point of the audiophoolery issue is how a power supply affects audio frequencies. In the RF case you point to, the envelope distortion occupies the audio spectrum and therefore qualifies as audio distortion. It doesn't matter that the RF does not flow through the power supply. It's the AC component at audio and lower frequencies that the power supply has to deal with.

Electronically "regulated" power supplies for audio amplifiers are hardly necessary. Same for modulated RF amps. The audiophoolers are extremists. If they were building cars they would gold plate the pistons, valves, cams, manifolds, carburetors, radiators, starters, dip sticks, lug nuts.....

Arden

Date: Mon, 28 Jul 2008 08:59:13 -0700 (PDT)
From: "J.D. Mac Aulay, WQ8U" <jmac6235@yahoo.com>
Subject: Re: 5U4's
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Message-ID: <35772.4189.qm@web54603.mail.re2.yahoo.com>

Arden,
You finally explained in terms us folks here in NC can understand - gold plated dip sticks and lug nuts!
They sure are

73
Mac
WQ8U
Hillsborough, NC

--- On Mon, 7/28/08, Arden Allen <gumbear@pacbell.net> wrote:

> From: Arden Allen <gumbear@pacbell.net>
> Subject: Re: 5U4's
> To: "Old Tube Radios" <boatanchors@theporch.com>
> Date: Monday, July 28, 2008, 10:40 AM

> > Arden you're right of course that a power supply
> with poor regulation will
> > distort a CW signal, but that's the envelope of
> the RF waveform. For an
> RF
> > amplifier, one needs a power supply with low output Z
> at DC up to a low
> > audio frequency. As I noted, the RF current
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> > supply.
> >
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> audio amplifiers are hardly
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> If they were
> building cars they would gold plate the pistons, valves,
> cams, manifolds,
> carburetors, radiators, starters, dip sticks, lug
> nuts.....
>
> Arden

Message-ID: <488DEBDD.1010503@ar88.net>
Date: Mon, 28 Jul 2008 11:55:09 -0400
From: Al Klase <al@ar88.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>

CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 5U4's
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Arden Allen wrote:

> No argument there. The point of the audiophoolery issue is how a power
> supply affects audio frequencies.....

I believe a lot of this nonsense is mistakenly transfered to the hi-fi case from the guitar amplifier world. Take a pair of 6L6's, devoid of appropriate negative feedback, and overdrive them by maybe 20 dB, at a frequency too low for the output transformer and PS filter caps. The output tubes are probably driven into grid current., You get a really collapsed and distorted waveform that's just what the crowd wants to hear. Under these circumstances you probably can "hear" the rectifier tube and maybe even the line cord.

In an even moderately good hi-fi amp, operated just a couple of dB south of the distortion point, this is all completely irrelevant.

Regards,
Al

--

Al Klase - N3FRQ
Flemington, NJ
<http://www.skywaves.ar88.net/>

Date: Mon, 28 Jul 2008 14:01:58 -0700 (PDT)
From: Jerry Proc <jerry7proc@yahoo.com>
Subject: Naval Radio Station HAIKU, Hawaii
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Message-ID: <280701.76919.qm@web90605.mail.mud.yahoo.com>

Hello Everyone,

Today I received a request to use a photo from one of my web sites. In the process, I checked out the web site shown in the sender's signature.

The URL has no hint as to what to expect. There are some excellent photos of the station including the Alexanderson Alternator which was shut down in 1958.

<http://www.davewjessup.smugmug.com>

Enjoy....

--

Regards,
Jerry Proc
E-mail: jerry7proc@yahoo.com

Yahoo! Canada Toolbar: Search from anywhere on the web, and bookmark your favourite sites. Download it now at
<http://ca.toolbar.yahoo.com>.

Message-ID: <BAY110-DAV65257582A960A3C93AEE0A0830@phx.gbl>
From: "JAMES HANLON" <knjhanlon@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Date: Mon, 28 Jul 2008 16:59:10 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Art,

I'm getting in on this a little late due to our being away since Thursday.

I've seen a lot of suggestions for a Ranger. I don't have a Ranger, but I do have a Valiant and two Viking vfo's driving a Viking II and an Adventurer, and I find that they all have excessive warm-up drift. The Rangers share that same vfo. My other caution about the Rangers is that they cost a pretty penny these days.

I also had (past tense) one of the Hallicrafters HA-5 vfos that has been recommended several times for use with the Drake 2NT, but I finally got rid of it - traded on a HT-18 vfo - because it never stopped drifting. My best suggestions for a stable, add-on vfo would be a Heath AT-1, a Hallicrafters HT-18, or one of the Collins or other manufacturers' PT0s from the T-195 transmitter. Those PT0s cover 1.5 to 3 MHz and a simple one or two stage, broad band doubler will give you output on 3 to 6 and 6 to 12 MHz as well if you need it. The shaft takes 10 turns to cover the range, so you have plenty of bandspread, especially if you drive it with a vernier dial.

Several rigs that I like to use on cw, not mentioned yet, that generally don't cost an arm and a leg, include the Elmac AF-67 and AF-68 and the Heath

DX-100. If you can afford them, the Collins 32V-series rigs also do well on CW. When I want to go on the WARC bands, I use either my Drake T4X or my Hallicrafters HT-20 with a T-195 vfo. The Drake rigs are plentiful. The HT-20 is nearly unobtainium these days, but if you should find one ...

Have fun!

Jim, W8KGI

Message-ID: <380-220087128231959546@earthlink.net>
From: "Art Lebermann" <artleb@earthlink.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Date: Mon, 28 Jul 2008 16:19:59 -0700
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Jim - and the group.....

Thanks for the suggestions! I'm making notes, and adding up the votes. Further comments are welcome.

73,
ART
W6REQ

> [Original Message]
> From: JAMES HANLON <knjhanlon@msn.com>
> To: Art Lebermann <artleb@earthlink.net>
> Cc: boatanchors <boatanchors@theporch.com>
> Date: 7/28/2008 3:59:10 PM
> Subject: Re: Suggestions for best CW rig?
>
> Art,
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> I'm getting in on this a little late due to our being away since Thursday.
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> I've seen a lot of suggestions for a Ranger. I don't have a Ranger, but I
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> Hallicrafters HT-20 with a T-195 vfo. The Drake rigs are plentiful. The
> HT-20 is nearly unobtainium these days, but if you should find one ...
>
> Have fun!
>
> Jim, W8KGI
>

Message-ID: <488E59F9.1040306@cox.net>
Date: Mon, 28 Jul 2008 16:44:57 -0700
From: David Hollander <n7rk@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Hallicrafters SX-62 Slipping Dial
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Hello anchorites. Acquired a nice SX-62 but it has one major issue -
backlash.

Studying the gear arrangement is giving me no clue as to what to do to
eliminate the backlash.

Is there anybody who has worked on an SX-62 familiar with this problem
and have a fix?

I have found some great SX-62 info on the web but nothing that addresses

this problem.

Thanks,

Dave N7RK

--

Dave N7RK Boatanchors Home Page: <http://members.cox.net/n7rk>
Phoenix, Arizona *DXCC Honor Roll* *WAZ#22 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector

Message-ID: <488E78B1.60501@oneradio.net>
Date: Mon, 28 Jul 2008 20:56:01 -0500
From: Robert Nickels <w9ran@oneradio.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Naval Radio Station HAIKU, Hawaii
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Jerry Proc wrote:

> The URL has no hint as to what to expect.

>

You're absolutely right in your statement above, thanks for sharing this fascinating site Jerry.

My curiosity as well as others has been aroused but this, as we all remember the all the stories of how the subs had to wait until they could surface and put up their HF vertical antennas.. So it would seem that the ability to communicate with submerged subs was a very well-kept secret! Presumably the Haiku station was the prototype for today's VLF/ULF communications systems.

73, Bob W9RAN

Date: Mon, 28 Jul 2008 20:11:35 -0700 (PDT)
From: Jerry Proc <jerry7proc@yahoo.com>
Subject: Re: Naval Radio Station HAIKU, Hawaii
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Message-ID: <72938.16539.qm@web90605.mail.mud.yahoo.com>

Hi Bob,

VLF signals (3 to 30 KHz) can penetrate water to depths of about 10 feet.

--

Regards,
Jerry Proc
E-mail: jerry7proc@yahoo.com

--- On Mon, 7/28/08, Robert Nickels <w9ran@oneradio.net> wrote:

> From: Robert Nickels <w9ran@oneradio.net>
> Subject: Re: Naval Radio Station HAIKU, Hawaii
> To: jerry7proc@yahoo.com
> Cc: "Old Tube Radios" <boatanchors@theporch.com>
> Received: Monday, July 28, 2008, 6:56 PM
> Jerry Proc wrote:
> > The URL has no hint as to what to expect.
> >
> You're absolutely right in your statement above,
> thanks for sharing
> this fascinating site Jerry.
>
> My curiosity as well as others has been aroused but this,
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> 73, Bob W9RAN

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End of BOATANCHORS Digest 4193
